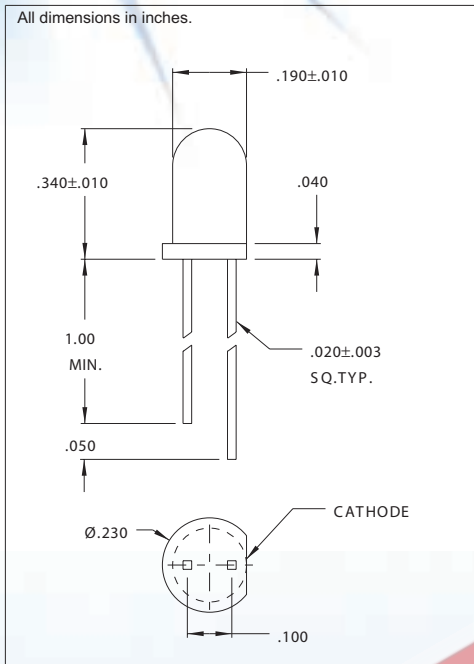




CML INNOVATIVE TECHNOLOGIES
WHERE INNOVATION COMES TO LIGHT

T-1 3/4 General Purpose LED Lamps

DESCRIPTION AND FEATURES



The HLMP33XX series are direct replacements for Hewlett Packard's HLMP33XX series. The FLV110 is a direct replacement for Fairchild's FLV110. These LED lamps are available with wide or narrow viewing angles for direct viewing or backlighting. The standard red lamp is produced with GaAsP and the High Efficiency Red lamps are produced with GaAsP/GaP. Lamps are available either diffused or non-diffused.

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ELECTRO-OPTICAL CHARACTERISTICS AND RATINGS

| PART NUMBER | HLMP3300 | HLMP3301 | HLMP3315 | HLMP3316 | FLV110 |
|--|-------------|-------------|--------------|--------------|-------------|
| Output Color | H.E. Red | H.E. Red | H.E. Red | H.E. Red | Red |
| Diffusion | Diffused | Diffused | Non-Diffused | Non-Diffused | Diffused |
| Package Color | Red | Red | Red | Red | Red |
| Test Current (mA) | 10 | 10 | 10 | 10 | 20 |
| Forward Voltage Typ. (V) | 2.2 | 2.2 | 2.2 | 2.2 | 1.6 |
| Forward Voltage Max. (V) | 3.0 | 3.0 | 3.0 | 3.0 | 2.0 |
| Luminous Intensity Min. (mcd) | 2.0 | 4.0 | 12.0 | 20.0 | 0.8 |
| Luminous Intensity Typ. (mcd) | 3.5 | 7.0 | 18.0 | 35.0 | 3.0 |
| Capacitance pF Vr=0, F=1MHz | 45 | 45 | 45 | 45 | 30 |
| Peak Wavelength (nm) | 635 | 635 | 635 | 635 | 665 |
| Viewing Angle 2θ 1/2 (degrees) | 65 | 65 | 35 | 35 | 70 |
| Power Dissipation (mW) | 135 | 135 | 135 | 135 | 135 |
| Operating Temperature (°C) | -55 to +100 | -55 to +100 | -55 to +100 | -55 to +100 | -55 to +100 |
| Storage Temperature (°C) | -55 to +100 | -55 to +100 | -55 to +100 | -55 to +100 | -55 to +100 |
| Peak Forward Current Max. (1µs @ 0.3% duty cycle) (mA) | 90 | 90 | 90 | 90 | 90 |
| Reverse Voltage (IR=100µA) (V) | 5 | 5 | 5 | 5 | 5 |
| Lead Solder Time @ 260°C | 5 | 5 | 5 | 5 | 5 |



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